Hawaii Grade 8

FlyBy MathTM Alignment Hawaii Content and Performance Standards III: Mathematics Updated 9/28/05

Strand: Numbers and Operations

Standard 1. NUMBER SENSE:

Understand numbers, ways of representing numbers, relationships among numbers, and number systems

Topic and Benchmark	FlyBy Math [™] Activities
Numbers and Number Systems MA.8.1.3 Use ratios and proportions to represent the relationship between two quantities	Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.
	Interpret the slope of a line in the context of a distance-rate-time problem.

Strand: Measurement

Standard 4: FLUENCY WITH MEASUREMENT

Understand attributes, units, and systems of units in measurement; and develop and use techniques, tools, and formulas for measuring

and formulas for measuring	
Topic and Benchmark	FlyBy Math [™] Activities
Measurement Tools and Techniques MA.8.4.2 Express rates of change as a ratio of two different measures, where units are included in the ratio, and use the derived rate to solve problems	Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.
Measurement Tools and Techniques MA.8.4.3 Use ratios and proportions to solve measurement problems	Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

Strand: Patterns, Functions, and Algebra

Standard 9: PATTERNS AND FUNCTIONAL RELATIONSHIPS:

Understand various types of patterns and functional relationships

, ,			
	Topic and Benchmark	FlyBy Math [™] Activities	
	Functions MA.8.9.2 Use linear relationships with two variables to solve problems	Represent distance, speed, and time relationships for constant speed cases using linear equations and a Cartesian coordinate system.	

Standard 10: SYMBOLIC REPRESENTATION: Use symbolic forms to represent, model, and analyze mathematical situations FlyBy Math[™] Activities **Topic and Benchmark** Numeric and Algebraic Representations --Represent distance, speed, and time relationships for constant speed cases using linear equations and a MA.8.10.1 Translate among tables, graphs Cartesian coordinate system. (including graphing technology when available), and equations involving linear relationships --Represent distance, speed, and time relationships for Numeric and Algebraic Representations constant speed cases using linear equations and a MA.8.10.2 Solve linear equations and inequalities Cartesian coordinate system. with two variables using algebraic methods, manipulatives, or models --Represent distance, speed, and time relationships for Numeric and Algebraic Representations constant speed cases using tables, bar graphs, line MA.8.10.3 Use tables and graphs to represent graphs, equations, and a Cartesian coordinate system. and compare linear relationships --Use graphs to compare airspace scenarios for both the same and different starting conditions and the same and different constant (fixed) rates. Rates of Change --Interpret the slope of a line in the context of a MA.8.10.4 Use the slope of a line to describe a distance-rate-time problem. constant rate of change